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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/376,017	08/19/1999	STANLEY YAMANE	ATV-005	5919

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EXAMINER

SALAD, ABDULLAHI ELM I

ART UNIT	PAPER NUMBER
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2157

DATE MAILED: 03/15/2004

28

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/376,017

**Applicant(s)**

YAMANE ET AL.

**Examiner**

Salad E Abdullahi

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2003.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-10, 12-18 and 20-22 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-10, 12-18 and 20-22 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/22/2003 has been entered.

2. Applicants remarks filed on 12/2/2003 with regard to claims 1-10, 12-18 and 20-22 have been fully considered but they are they are moot in view of new grounds of rejection.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-10, 12-18 and 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christie et al U.S. Patent No. 6,182,117 in view of Huges et al., U.S. Patent No. 5,892,908.

As per claims 1, 12, 15 and 20, Christie et al discloses a system for notifying a computer of changes to a source file (replicating changes in a source file set (i.e., the local site A database on a destination file system), comprising the steps of:

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- identifying changes in the files in the master source set on master computer)(central file server) (identifying changes made to objects in local site database (see col. 3, lines 9-65 and col. 5, lines 13-20);
- storing the identified changes in a modification list (storing updates in an event table), (see col. 5, lines 13-37), comprising unique identifiers (UID) (see col. 3, lines 47-65);
- transmitting the modification list to an agent having access to a destination file stem (see col. 5, lines 13-37); and
- receiving a response from the computer indicating that the identified changes are installed (col. 6, lines 24-30 and col. 19, lines 21-27).

Christie et al., is silent regarding: converting local host address of the files to uniform resource locator.

Nonetheless, converting local host address of the files to uniform resource locator would have been an obvious modification to Christie's system as evidenced by Huges et al., . Huges et al., disclose a system for converting local host address of the files to uniform resource locator (see figs. 3, 4 and col. 2, lines 43-60 and col. 5, lines 23-26). Furthermore, figure 4, shows on the server side hard drive the every local file 54 has URL address which indicate the path names of the has been converted to uniform resource locator address. In addition, storing server files with their uniform resource would be beneficial to Christie's because it easier for servers to replicate files with URL address to other servers. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the teaching of Huges into

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Christie's system by converting/translating the local host/server address of the files of replicated sites to uniform resource locator addresses before the files transmitted the other replicated sites such that replicated updates can be efficiently and quickly processed or synchronized, thereby enhancing system response time.

In considering claim 2 and 13. "official notice" is taken that both the concept and advantage of utilizing web cache servers is well known in the art. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to utilize cooperating cache servers as web cache servers are known to dynamically minimize latency.

In considering claims 3-5 and 21, Christie et al discloses a system, wherein the identifying step comprises the steps of:

- inspecting a set of files, comparing the set of files to an earlier-recorded set (see col. 3, line 65 to col. 4, line 10, and col. 5, lines 13-37);
- installing a device driver to perform file operations and recording, by the device driver, changes to the source file set ( see col. 10, lines 16-20); and
- receiving a manifest (table ) describing changes to the source file set (see col. 3, line 65 to col. 4, line 10, and col. 5, lines 13-37).

In considering claims 6 and 7 Christie et al discloses a system, wherein the identifying step comprises the steps of:

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inspecting a set of files, comparing the set of files to an earlier-recorded set (see col. 3, line 65 to col. 4, line 10, and col. 5, lines 13-37);

installing a device driver to perform file operations and recording, by the device driver, changes to the source file set ( see col. 10, lines 16-20); and

receiving a manifest (table ) describing changes to the source file set (see col. 3, line 65 to col. 4, line 10, and col. 5, lines 13-37).

In considering claims 8, 9 and 10, Christie et al discloses s system further comprising the step of calling a script of user configurable instruction (see col. 3, lines 13-24 and col. 9, lines 44-53).

In considering claim 14, step of converting the first list to a second list (see col. 11, lines 20-37).

In considering claim 16, Christie et al., disclose a computer system, comprising:

- a manager (agent manager) for managing the computer system( see fig. 3a, element 320);
- Host (i.e. site A ) comprising central file server for receiving requests (see col. 3, lines 9-24);
- a content distributor (replicator 308 which act as server agent) in communication with the host and the manger, the content distributor for providing notification of changes to a source file (see col. 3, lines 9-65 and col. 5, lines 13-20);and
- receiving a response from the computer indicating that the identified changes are installed (col. 6, lines 24-30 and col. 19, lines 21-27).

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Christie et al., is silent regarding: converting local host address of the files to uniform resource locator.

Nonetheless, converting local host address of the files to uniform resource locator would have been an obvious modification to Christie's system as evidenced by Huges et al., . Huges et al., disclose a system for converting local host address of the files to uniform resource locator (see figs. 3, 4 and col. 2, lines 43-60 and col. 5, lines 23-26). Furthermore, figure 4, shows on the server side hard drive the every local file 54 has URL address which indicate the path names of the has been converted to uniform resource locator address. In addition, storing server files with their uniform resource would be beneficial to Christie's because it easier for servers to replicate files with URL address to other servers. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the teaching of Huges into Christie's system by converting/translating the local host/server address of the files of replicated sites to uniform resource locator addresses before the files transmitted the other replicated sites such that replicated updates can be efficiently and quickly processed or synchronized, thereby enhancing system response time.

As per the computer system includes a web cache system. Although, Christie et al, and Huges et al., are silent the computer system includes a web cache system.

However, a web cache system is well known system, part of web service system.

Furthermore, Christie et al discloses replicating data between computer sites, which are located remotely from each other indicating this replication process, can obviously be utilized in web cache system in order to replicate data from a particular web site to a

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web caching servers closer to the client computers. Therefore, it would have been obvious to one having ordinary skill in art at the time of the invention to incorporate the a web cache server system into the system of Christie and Huge because web cache servers are know to dynamically minimize latency.

In considering claim 17, Christie et al., discloses a system further comprising a traffic manager (moderator 314) for directing requests (see col. 10, lines 34-53).

In considering claims 18, Christie disclose substantial features of the claimed invention as discussed above with respect to claim 16, including:

- identifying changes in the source file set (identifying changes made to objects in local sites database), (see col. 3, lines 9-65 and col. 5, lines 13-20); storing the identified changes in a modification list (storing updates in an event table), (see col. 5, lines 13-37), comprising unique identifiers (UID) (see col. 3, lines 47-65);
- transmitting the modification list to an agent (340) having access to a destination file stem (see col. 5, lines 13-37); and
- receiving a response from the computer indicating that the identified changes are installed (col. 6, lines 24-30 and col. 19, lines 21-27).

Christie et al., is silent regarding: converting local host address of the files to uniform resource locator.

Nonetheless, converting local host address of the files to uniform resource locator



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would have been an obvious modification to Christie's system as evidenced by Huges et al., . Huges et al., disclose a system for converting local host address of the files to uniform resource locator (see figs. 3, 4 and col. 2, lines 43-60 and col. 5, lines 23-26). Furthermore, figure 4, shows on the server side hard drive the every local file 54 has URL address which indicate the path names of the has been converted to uniform resource locator address. In addition, storing server files with their uniform resource would be beneficial to Christie's because it easier for servers to replicate files with URL address to other servers. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the teaching of Huges into Christie's system by converting/translating the local host/server address of the files of replicated sites to uniform resource locator addresses before the files transmitted the other replicated sites such that replicated updates can be efficiently and quickly processed or synchronized, thereby enhancing system response time.

In considering claim 22, Huges discloses a method, wherein the prefix of a source directory of the local host corresponds to a particular prefix of possible URLs and characters which are not allowed in the URL such as space are encoded to a specified rule (see figs. 3, 4 and col. 3, lines 15-60 ).

### **Conclusion**

5. The prior art made of record and not relied upon is considered pertinent to the applicant's disclosure.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Abdullahi E. Salad** whose telephone number is **(703) 308-8441**. The examiner can normally be reached on Monday to Friday from **8:30 AM to 5:00 PM**. If attempts to reach the examiner by telephone are unsuccessful, the examiners' supervisor, **Etienne, Ario** can be reached at **(703) 308-7562**. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is **(703) 305-3900**.

**Any response to this action should mailed to:**

Box AF

Commissioner of Patents and Trademarks

Washington, DC 20231

**or faxed to:**

(703- 872-9306)

  
Abdullahi salad

3/5/2004